

Thursday
largest
paper



Volume 122, Number 35

Cambridge, Massachusetts 02139

The Weather
Today: Cloudy, 68°F (20°C)
Tonight: Rain, 58°F (14°C)
Tomorrow: Showers, 72°F (22°C)
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Thursday, August 29, 2002

MIT Used Comic Art for Grant Proposal

By Dan Cho
STAFF REPORTER

In competing for its \$50 million nanotechnology research grant from the U.S. Army last winter, MIT used an allegedly pirated comic book image without crediting the original artists.

A cartoon image used in MIT's proposal and subsequent publicity efforts appears to be copied from illustrations in *Radix*, a comic book created by two brothers in Montreal who recently decried MIT's actions publicly.

The image in question depicts an armor-clad female soldier holding two weapons. The figure's equipment and stance are almost identical to the character on a cover of *Radix*. The city-scape background of MIT's image also bears a striking resemblance to those found in *Radix*. The image distributed by MIT was later widely-circulated in national newspapers and other media when MIT was awarded the \$50 million grant last March to create the Institute for Soldier Nanotechnology.

Ray Lai, who created *Radix* with his brother, Ben, said he began to receive phone calls in April from fans informing him that his work was being used to accompany news articles about MIT's new research grant.



A cartoon image MIT distributed with a proposal for a \$50 million grant from the U.S. Army (left) is similar to images from *Radix* (right), a comic produced by Ray and Ben Lai.

The image was credited to an "H. Thomas" in MIT news releases. Edwin L. Thomas, a professor in Materials Science and Engineering

and director of the new lab, told the Web site CNET.com in a March interview that the image was drawn by his daughter. He also said that the

illustration was based on his descriptions of the proposed new technolo-

Comic, Page 10

First Floor Student Center Renovations Ongoing

By Eun J. Lee
FEATURES EDITOR

The first floor of the Student Center will be getting a facelift in the coming weeks.

Notable changes are already apparent in the newly-painted color scheme, but more drastic changes are on the way.

"We're hoping that the changes

will strengthen the social interactions that take place on this floor," said Phillip J. Walsh, director of the Campus Activities Complex. "This will become a location where people can come and just hang out."

Other changes include a new Latino cultural center that will move in to the basement space where the

game room currently resides.

Walsh said that The Source, an information and ticket sales booth for the MIT community, will be taken out of the Student Center because it is seldomly used.

The CAC Advisory Board decid-

Renovations, Page 11

In-house Rush, Page 11

Still Know Your Calculus? Try The Tech's 18.01 Test

By Brian Loux
NEWS EDITOR

Upperclassmen always enjoy taking freshmen naïvete for outright stupidity. Is it an accurate description?

Reporter's Notebook While many have already mastered and passed the courses freshmen have yet to be taught, have we actually retained our knowledge from the past?

When the opportunity to pit myself against the freshmen arose, I eagerly decided to find out. Yesterday morning, some members of the Class of 2006 awoke at 8:00 a.m. — probably the last time for the next nine months — to take the 18.01 advanced standing exam. I figured that I, a junior with the ben-

efit of two years of MIT education, should be able to fare considerably well on a basic calculus exam.

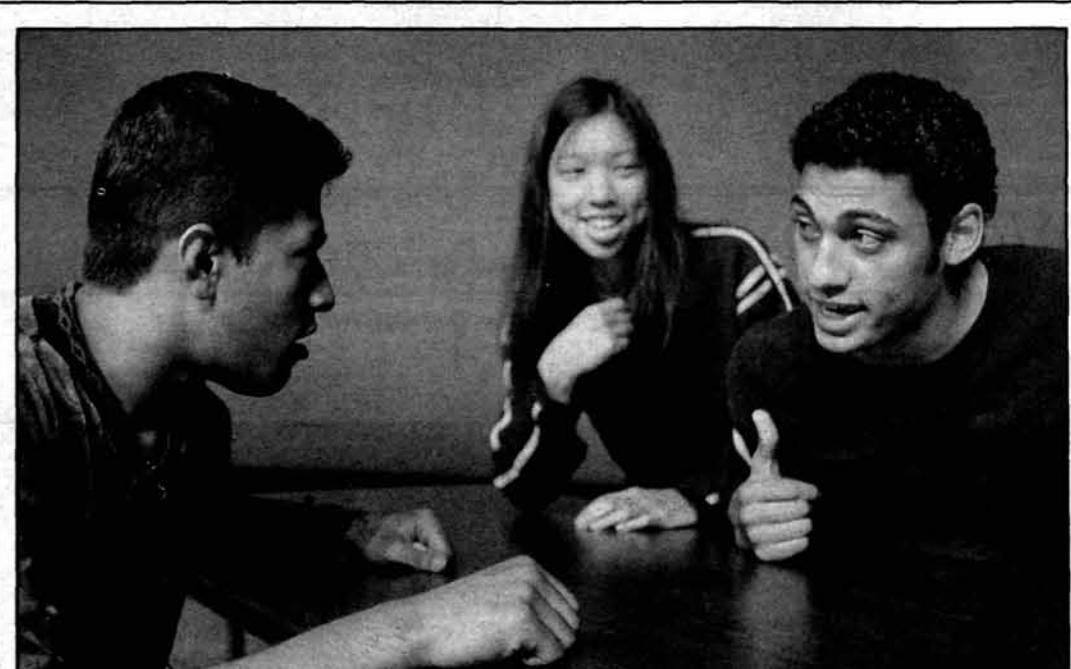
I opted to take the 18.01 (Calculus) test instead of the 8.02 (Electricity and Magnetism) test because presumably all scientists and engineers use basic calculus on a fairly regular basis.

I wanted to be entirely unprepared for the test as well, an attempt to make the exam a random test of an MIT student's abilities. Thus I chose not to study for the test and got set for only five hours of sleep.

I'm a freshman, really

I realized going in that I had everything to lose. My own dignity, the reputation of *The Tech*, Environmental Engineers, the lacrosse team, Next House, the Freshman

Test, Page 7



Siddhartha Sen '03 (left), Ming-Fai Fong '05 and Jorge B. Bravo '05 perform a sketch during a Tech Theater rehearsal on Wednesday. In this sketch, Bravo talks Sen into playing 'You Get Sloshed.'



Nothing is taboo for comic Margaret Cho.



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OPINION

Jyoti Tibrewala discusses the teaching of creationism in public schools.

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WORLD & NATION

Muslim Group May Be Targeting U.S. Embassy

THE WASHINGTON POST

BEIJING

The U.S. Embassy in Beijing said Wednesday there is evidence that an obscure Muslim organization fighting Chinese rule in the western province of Xinjiang has been planning a terrorist strike against the U.S. Embassy in Kyrgyzstan.

The allegation, aimed at the East Turkestan Islamic Movement (ETIM), marked the first time the United States or China has accused a Uighur rebel group of plotting to attack Americans. Added to other U.S. statements blaming the movement for more than 200 terrorist acts in China, it suggested the Bush administration has accepted the Chinese government's assertion that it is fighting radical Muslim terrorists in Xinjiang.

Human rights groups have accused China of exaggerating the terrorist threat to justify a crackdown on dissent among the region's 8 million Uighurs, a Turkic-speaking ethnic group that practices a moderate form of Islam.

On Monday, Deputy Secretary of State Richard Armitage announced that ETIM had been added to a State Department list of terrorist groups, freezing its assets in the United States and fulfilling a long-standing request by the Chinese government. He said the group "committed acts of violence against unarmed civilians without any regard for who was hurt."

Al-Qaeda Drawing Fresh Funds

SPECIAL TO THE WASHINGTON POST

UNITED NATIONS

A global campaign to block al-Qaeda's access to money has stalled, enabling the terrorist network to obtain a fresh infusion of tens of millions of dollars and putting it in position to finance future attacks, according to a draft U.N. report.

In the months immediately following the Sept. 11 attacks, the United States and other U.N. members moved to shut down al-Qaeda's financial network, freezing more than \$112 million in assets belonging to suspected members and supporters of the organization.

But only \$10 million in additional funds have been blocked over the past eight months, according to the 43-page draft report, which was written by a U.N. panel responsible for monitoring enforcement of an arms, travel and financial embargo against al-Qaeda and its associates.

Al-Qaeda continues to draw on funds from the personal inheritance of Osama bin Laden, the Saudi-born dissident who heads the network, as well as investments and money diverted or embezzled from charitable organizations, according to the draft report.

Westerfield Penalty Phase Begins

LOS ANGELES TIMES

SAN DIEGO

A former niece testified Wednesday that, when she was 7 years old, David Westerfield stuck his finger in her mouth while she was sleeping and began "playing with my teeth."

The testimony came on the first day of the penalty portion of Westerfield's trial for kidnapping and murdering 7-year-old Danielle van Dam.

Under state law, a jury in a penalty trial can consider prior misconduct by the defendant, even if it did not result in a criminal charge or investigation.

The young woman was called by the prosecution in an attempt to show that Westerfield had a tendency toward making improper advances on underage girls. Deputy District Attorney Jeff Dusek told jurors in Superior Court that Westerfield deserves to be executed.

The witness, now 19, who was identified only as Jenny Lynn, said she had bitten Westerfield to get him to stop, but that she had not shouted or called for her parents, who were downstairs at a party.

Six Men Indicted On Charges Of Pursuing Terrorist Activity

By Douglas Farah
and Tom Jackman
THE WASHINGTON POST

Authorities in two cities Wednesday charged a total of six men with conspiring to support international terrorism, calling one group in the Detroit area a "sleeper operational combat cell" of radical Muslims that was helping to plot attacks in the United States, Turkey and Jordan.

In an indictment of five Detroit men handed up by a federal grand jury, prosecutors alleged that four suspects "operated as a covert underground support unit for terrorist attacks." The cell, part of an organization affiliated with al-Qaeda, was responsible for procuring false passports, Social Security numbers and other documents so their "brothers" could enter the United States.

The indictment says the men were specifically tasked with buying weapons and finding security breaches at Detroit Metropolitan Airport to "directly access airlines." Two of the suspects worked in the kitchen of an airline catering firm at the airport during the summer of 2001.

Seized in a Sept. 17 raid on the Detroit apartment where three of the

men lived was a videotape "that appears to depict surveillance" of U.S. landmarks, including Disneyland and the MGM Grand hotel in Las Vegas. Several of the men have been in custody ever since, but authorities Wednesday alleged the extent of the plot for the first time.

An FBI spokeswoman said that the indictment represents the first time that anyone has been publicly accused of being part of an active "sleeper cell" in the United States.

Authorities have made several other arrests since the Sept. 11 attacks of people they accuse of cooperating with terror groups, including American citizen Jose Padilla, who they allege was part of a plot to detonate a radioactive bomb in the United States. But the Detroit indictment describes some of the most extensive efforts to date in the United States to aid the al-Qaeda network.

In an unrelated indictment handed up Wednesday in Seattle, prosecutors charged 36-year-old James Ujaama with attempting to set up an al-Qaeda training camp at a farm in Bly, Ore., where he and others hoped to prepare future terrorists for "global violent jihad."

According to the indictment,

Ujaama and others traveled in October, 1999 from Seattle to Bly, where they took firearms practice. After visiting the property, Ujaama faxed a proposal to Abu Hamza al-Masri, a militant Muslim cleric in London, describing the location's benefits, including its availability as a safe-house location and suitability for weapons storage, the indictment alleges.

Ujaama is also accused of designing web sites for al-Masri advocating violent jihad against America. Al-Masri has been formally designated a terrorist by the U.S. government and linked to such incidents as the bombing of the USS Cole in Yemen, which killed 17 American sailors in an attack that the U.S. government blames on al-Qaeda. But al-Masri has not been charged.

The two-count indictment alleges Ujaama provided "training, facilities, computer services, safe-houses and personnel" to al-Qaeda as part of a conspiracy.

Ujaama, a Denver native who is being held in Alexandria, Va., as a material witness, issued a statement Tuesday night saying he is "innocent of any wrongdoing and ... fully prepared to face my accusers and defend myself in a court of law."

Washington-Baltimore Olympic Bid Eliminated By Committee

By Johanna Neuman
LOS ANGELES TIMES

WASHINGTON

The U.S. Olympic Committee has rejected Washington, D.C.'s bid to host the 2012 Olympics because, Washington organizers of the effort say, the European-dominated International Olympic Committee would not smile on an application from a city planning an unpopular war against Iraq.

Once again, it seems, the foreign policy of the federal city has torpedoed the well-meaning, painstaking efforts of Washington to act like a normal town.

Through the civic smiles, it was hard to hide the disappointment.

"It's difficult to reconcile the fact that we had such a strong tech-

nical bid with the decision not to move us forward," said Dan Knise, one of the torch carriers for Washington's six-year, \$10 million Olympic campaign. "We always knew that Washington had a unique position, pro and con. But we were somewhat blindsided at the end by this amorphous sense that Washington might not be the right place."

In making its decision Tuesday, the U.S. Olympic Committee eliminated bids from Houston and the Washington-Baltimore region, leaving alive the hopes of San Francisco and New York to be the U.S. choice to host the 2012 event. Even at that, the U.S. choice faces stiff opposition from several European cities — among them Paris, Rome and Moscow.

The committee will announce its final selection on Nov. 3.

Officially, the U.S. committee said only that the narrowing of the field was a consensus choice. Unofficially, according to leaders of the Washington-Baltimore team, there was sentiment among committee members that offering Washington as the U.S. choice might inflame the anti-American bias of Europeans distrustful of Bush's drumbeating for ousting Iraqi leader Saddam Hussein.

Some Washington observers were not surprised that the city — with its diverse neighborhoods, its cultural wealth, its international flavor and its economic vibrancy — was once again confused with the governmental policies of the "other" Washington, the seat of federal power.

WEATHER

Relief from the Heat Coming Soon

By Robert Korty G

STAFF REPORTER

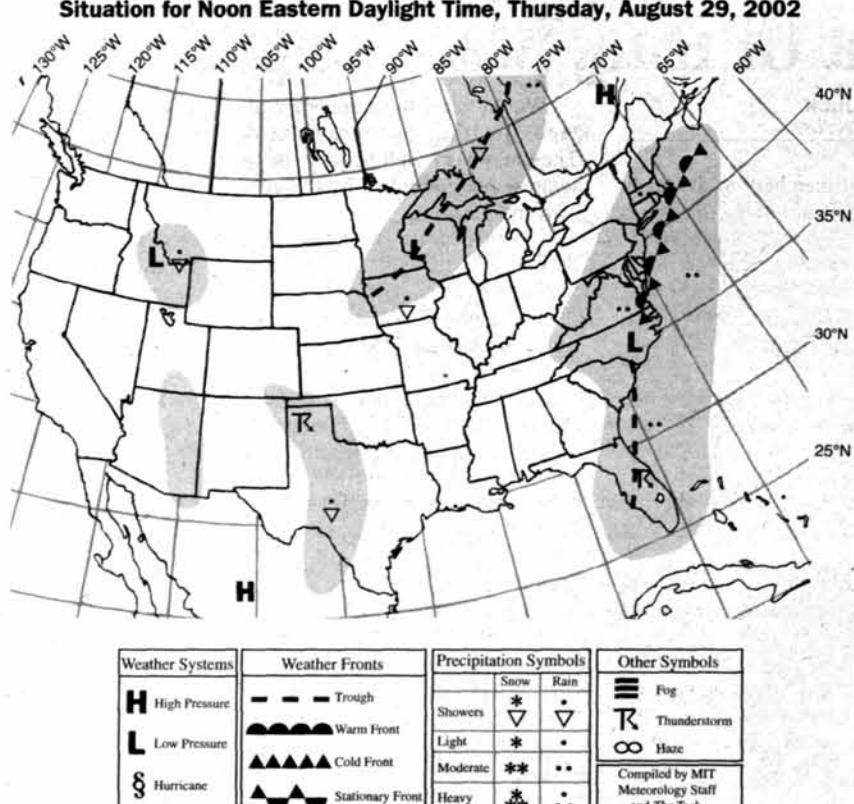
For those either spending their first week in New England or returning from a summer away, the weather could not have been more welcoming: it has been seasonable and refreshing all week. Just two weeks ago, the temperature at Logan airport reached 101°F (38°C), the highest recorded in Boston in 25 years. It has hit or surpassed 90°F (32°C) in the city 25 days this year, just four days shy of the record. In fact, over the past 12 months only in May and June was the monthly mean temperature below the 30-year average. It has been a very warm year.

With hot and dry weather for much of the summer, drought conditions have worsened over the eastern United States, reaching particularly severe levels in parts of the Southeast. This week, a low pressure system cut off from the main mid-latitude steering current produced copious amounts of rain in the Southeast. The precipitation moved slowly northeast yesterday, and the probability of rain in southern New England will be high for the remainder of the week.

Extended Forecast

Today: Cloudy with rain developing. High 68°F (20°C).
Tonight: Rain. Low 58°F (14°C).
Friday: Showers early, then partial clearing. High 72°F (22°C).
Saturday: Partly cloudy with showers Saturday night. High 71°F (22°C); low 60°F (16°C).

Situation for Noon Eastern Daylight Time, Thursday, August 29, 2002



Former WorldCom Executives Indicted For Securities Fraud

By Carrie Johnson
and Jonathan Krim
THE WASHINGTON POST

A federal grand jury in New York Wednesday indicted two former WorldCom Inc. executives on securities fraud charges while three other officials at the telecommunications giant indicated that they are prepared to admit wrongdoing and cooperate with prosecutors in the fast-paced investigation.

Scott Sullivan, WorldCom's onetime chief financial officer, and Buford Yates Jr., the company's director of general accounting, "falsely and fraudulently" reduced the company's expenses in an effort to inflate earnings by \$5 billion, according to the first formal criminal charges stemming from the nation's largest ever bankruptcy.

Sullivan and Yates also made false statements about WorldCom's finances in filings with the Securities and Exchange Commission, the seven-count indictment charged.

The indictment of Sullivan was foreshadowed early this month when

he and another WorldCom executive were paraded in handcuffs before television cameras in New York as part of a Bush administration crackdown on corporate malfeasance. The cooperation by other WorldCom officials is likely to increase the pressure on Sullivan, experts said.

"The charges filed today reflect our commitment to pursue fraud cases both up and down the corporate ladder," James Comey, U.S. attorney for the Southern District of New York, said in a prepared statement Wednesday. "We will prosecute the CFOs and controllers who give the orders from the top to commit white collar crimes. But we will also prosecute corporate officials at all levels who knowingly carry out criminal schemes which defraud the investing public."

Yates was a senior WorldCom finance official who left the company recently. His attorney, David Schertler, said he has not had a chance to review the indictment carefully and could not comment.

Sullivan's lawyer, Irvin Nathan,

said in an interview that his client will plead not guilty to the charges.

"We are diligently preparing his defense," Nathan said. "We continue to look forward to our day in court and we hope by the time this case comes to trial the media frenzy fanned by politicians has calmed down."

WorldCom has joined Enron Corp. as a symbol of the improper accounting some companies used to deceive investors during the stock market bubble of the late 1990s.

WorldCom is the parent company of Arlington, Va., long distance phone firm MCI and UUNet, the Ashburn, Va., Internet service provider that carries a big chunk of the world's Internet traffic.

WorldCom filed for bankruptcy protection in July after disclosing it had falsely booked \$3.9 billion in expenses over the past five quarters. Earlier this month, the company reported that it had mishandled \$3.8 billion more, in the form of reserve accounts designed to cushion it from losses.

Charges Filed Against Moroccan Connected With Terrorist Attacks

By Carol J. Williams
LOS ANGELES TIMES

BERLIN

Federal prosecutors filed criminal charges Wednesday against the only suspect in their custody linked to the Hamburg terrorist cell accused of carrying out the Sept. 11 attacks.

Mounir El Motassadeq, a 28-year-old Moroccan, will face trial "because of his participation in the terror attacks," the office of federal prosecutor Kay Nehm announced in a statement that did not specify the charges. Nehm scheduled a news conference for Thursday to disclose details.

Motassadeq was a frequent visitor to the Hamburg apartment of hijackers Mohamed Atta and Marwan al Shehhi, and his name appeared last fall on a U.S. list of 370 people or associations suspected of assisting terrorists. He was arrested Nov. 28 after investigators discovered he had a power of attorney over a bank account held by Shehhi and had been a witness to Atta's last will and testament — a document replete with extremist religious expressions and paranoid comments.

In a statement at the time of Motassadeq's arrest, Nehm's office said the suspect managed the bank account for Shehhi from May to

November 2000 and that "large sums of money were regularly transferred into this account. ... According to our information, these funds were used to help members of the terrorist group."

The payments were made to support the plotters during their stay in the United States for flight training, investigators said.

Atta, a 33-year-old Egyptian, is believed to have piloted the hijacked Boeing 767 that crashed into the north tower of the World Trade Center in New York on Sept. 11. Sixteen minutes later, another 767 rammed the south tower. Shehhi, 23, of the United Arab Emirates, was believed to have been at Atta's supervision.

International arrest warrants have been issued by Nehm's office for three other suspected collaborators from the Hamburg cell: Bahaji, 27, a German citizen of Moroccan descent; Ramsi Binalshibh, 30, of Yemen; and Zakariya Essabar, 25, of Morocco. They are all wanted for alleged support to the suicide pilots.

Authorities are still investigating whether Motassadeq's two years of work as a janitor at Hamburg's airport might have given him access to secure areas or means of creating false identifications. German media reported last fall that police sweeps of suspected terrorist hide-outs in other areas of the country turned up airline uniforms and security badges that might have helped terrorists gain access to planes.

Al-Qaeda Members Fled To Kurdish Area Of Iraq, State Department Says

By Doug Struck
THE WASHINGTON POST

TOKYO

Suspected members of al-Qaeda who fled to Iraq are likely in an area of the country controlled by Kurdish groups, not President Saddam Hussein, a top State Department official said here Wednesday.

Deputy Secretary of State Richard Armitage said he does not believe the al-Qaeda members are harbored by the Kurdish parties, whom Washington is courting as allies against Saddam, and who operate in northern Iraq under the protection of U.S. fighter planes.

But Armitage's information lends support to the Iraqi leadership's denial that they are harboring al-Qaeda fugitives. And it appeared to undercut one argument used by Defense Secretary Donald Rumsfeld to justify a possible attack on Iraq's ruler. Rumsfeld said last week that the al-Qaeda members must be in Iraq with the assent of the Baghdad government.

"We do know there are some al-Qaeda in Iraq," Armitage said. "They may very well be in some of the areas not controlled by the government of Iraq."

U.S. intelligence officials last week pointed to the presence of what they said were ranking al-Qaeda members in Iraq as further evidence of Saddam's support for terrorism. Tariq Aziz, Iraq's deputy prime minister, responded in a CBS interview that the al-Qaeda members are in the northern part of the country under the control of Kurdish opposition leader Jalal Talabani, "an ally of Mr. Rumsfeld."

"I'm not suggesting al-Qaeda is under the protection of the Kurds," Armitage said in response to a question at a news conference in Tokyo. "I don't think the Kurds have any more affection for al-Qaeda than anyone else." But he said their presence in "disputed territory" of northern Iraq places them outside the reach of Saddam's government.

Armitage's efforts to build sup-

port for possible military action against Iraq got a wary response in Japan, the chief U.S. ally in Asia. But he stressed at the end of a six-day trip to the region Wednesday that he is not seeking a commitment yet.

"I didn't come to ask Japan to do something specifically on Iraq, or anything else. I came to confer," Armitage said before leaving for the United States. "We came to discuss our views."

On the heels of his departure, China and India, two of the countries he visited, spoke out against the use of force to topple Hussein, a course Vice President Dick Cheney said on Monday is justified by the threat presented by Baghdad's weapons of mass destruction.

Armitage insisted Wednesday that President Bush has not decided to launch an attack. And he repeated assurances that once a course of action is decided, Washington will disclose the evidence for its action and embark on further consultations with allies.

Tax Package Meant to Boost GOP

THE WASHINGTON POST

WASHINGTON

The White House plans to push forward with a package of tax cuts for investors, but administration officials have made it clear to concerned conservative economists that the measures are designed more to help Republicans in the fall elections than to pass Congress this year.

Worsening federal deficit forecasts released Tuesday by the Congressional Budget Office have made lawmakers in both parties skeptical about more tax cuts. Treasury and White House tax experts met Wednesday to hash out the package, but progress stalled over the costs.

The package almost certainly will include a provision to raise the amount of stock losses that can be deducted from income taxes each year, said congressional aides familiar with the negotiations. Also under consideration are reducing the tax rates on capital gains and stock dividends; raising the limit for contributions to retirement accounts; and boosting the age at which retirees must begin withdrawing funds from Individual Retirement Accounts from 70 and a half to 75.

Both liberal and conservative economists have raised concerns about the proposals' short-term economic impacts and the precedent they might set for government intervention in the stock market. But according to participants, Lindsey indicated he had no illusions that the tax cuts would pass in the limited time Congress has left before the mid-term elections.

Instead, participants said, the White House would be giving GOP candidates an answer to Democrats who blame the president's party for this summer's dramatic stock slide.

Nonprofit Groups Seek Exemption From Campaign Finance Law

LOS ANGELES TIMES

WASHINGTON

Two nonprofit organizations urged federal regulators Wednesday to exempt charities and foundations from provisions of the new campaign-finance law that restrict television advertisements prior to an election.

The plea from the Sierra Club Foundation and the Alliance for Justice came as the Federal Election Commission began debating the law's efforts to rein in broadcast ads, funded by unregulated donations to special-interest groups, that attack or promote political candidates.

Under the law, the unregulated donations — known as soft money — may not be used to pay for ads that mention a candidate for federal office 30 days before a primary election or 60 days before a general election.

The authors of the law designed these provisions to crack down on so-called "sham issue ads" that are often used to influence elections. They feared that the proliferation of such ads would defeat the main point of the law, which was to prohibit national parties and federal candidates from collecting soft money.

But the law allows the FEC to create exceptions to the pre-election advertising rule. And so the two nonprofit groups argued, in written testimony, that the commission should cut a break for public charities and private foundations in the interest of free speech.

Fuel Source Discovered in Sugar

NEWSDAY

Clean-burning hydrogen can probably be squeezed from a common sugar, glucose, perhaps at reasonable cost, scientists in Wisconsin announced Wednesday.

If so, it would be possible to get large amounts of a clean, energy-rich fuel from waste plant products, such as tons of leftover sugar cane, weeds and wood, and even from such animal byproducts as cheese whey, they said.

Based on experiments using metal catalysts and sugars, chemical engineers James Dumesic, Randy Cortwright and Rupali Davda reported on their findings in Thursday's issue of the science journal *Nature*.

"If we're using a cheap enough waste stream" to make the glucose, Dumesic said, "then I think we could be competitive" with other energy sources. But if the glucose had to be bought from the food industry, "that would be too expensive."

According to Esteban Chornet and Stefan Czernik, at the National Renewable Energy Laboratory in Golden, Colo., "biofuels" such as glucose derived from plant waste "are becoming a viable component of tomorrow's energy mix." They wrote in *Nature* that "crops such as sugar cane, as well as switchgrass and hybrid poplar, might well be suitable."

Urban Sprawl Worsens Drought

LOS ANGELES TIMES

WASHINGTON

The rapid expansion of paved-over and developed land in metropolitan areas has made already intense drought conditions even worse, a report released Wednesday said.

Water that used to seep into fields or grasslands now rushes off new roads, roofs, driveways and parking lots, turning into polluted runoff.

"Sprawl development is literally sending billions of gallons of badly needed water down the drain each year — the storm drain," said Betsy Otto, senior director for watershed programs at American Rivers, a national environmental organization. "Sprawl hasn't caused this year's drought, but sprawl is making water supply problems worse in many cities."

In Atlanta and its surrounding counties — where more than 609,000 acres were developed between 1982 and 1997 — development is sending 57 billion to 133 billion gallons of polluted runoff into streams and rivers each year, according to the report, which was prepared by American Rivers; the Natural Resources Defense Council, another national environmental organization; and Smart Growth America, a group dedicated to sustainable development.

This water — which the report said could support the average annual household needs of between 1.5 million and 3.6 million people — would otherwise be filtered through the soil to recharge aquifers and provide underground flows to rivers, streams and lakes.

OPINION



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The Tech (ISSN 0148-0807) is published on Tuesdays and Fridays during the academic year (except during MIT recesses). Wednesdays during January and February cost \$45.00 per year. Third Class paid at Boston, Mass. Postage No. 84 Massachusetts Ave., Cambridge, Mass. 02139. Third Class postage paid at Boston, Mass. Permit No. 84 Massachusetts Ave., Cambridge, Mass. 02139. Telephone (617) 253-1541. The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029. Telephone (617) 253-1541. Editorial: (617) 253-8329. Business: (617) 253-8228. Faculty, advertising, subscription, and advertising rates available. © 2002 The Tech. Printed on recycled paper by Charles River Publishing.

DEAR LORD, YOU
KNOW HOW MUCH
I'VE SUFFERED.

THE AGONY
I'VE LIVED
WITH OVER THE
YEARS.

IF YOU COULD GRANT
ME JUST A LITTLE
RELIEF FROM MY PAIN
AND MISERY
I WOULD BE
FOREVER GRATEFUL.

ARE YOU PRAYING FOR
A BASEBALL STRIKE?!!
WHO DO YOU THINK
YOU ARE?!!

I'M A CUBS FAN!
"HAVE MERCY
ON ME!!!
IN THAT
CASE, I'LL
SEE WHAT
I CAN DO."

YOU'RE AN EVIL
EVILDOER, AND I'M
HERE TO REVENGE
MY POPPY!!

DON'T YOU
MEAN
AVENGE?
WHATEVER!!
I'M MAD, AND I MEAN
BUSINESS!!

SPEAKING OF BUSINESS,
WHY DON'T
YOU MIND
YOUR
OWN?!!

CAUSE I'M A LOOKING
TO CREATE A LITTLE
REGIME CHANGE
AROUND
HERE!!

THE LAST BUSHIE TO TANGLE
WITH ME HAD HIS OWN
REGIME CHANGED. JUST ASK
YOUR DADDY!

THERE'S
NOTHING
WORSE
THAN
A SMART-
ALECK
EVILDOER!

Opinion Policy

Editorials are the official opinion of *The Tech*. They are written by the editorial board, which consists of the chairman, editor in chief, managing editor, executive editor, news editors, features editor, and opinion editors.

Dissents are the opinions of the signed members of the editorial board choosing to publish their disagreement with the editorial.

Columns and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper.

Letters to the editor are welcome. Electronic submissions are encouraged and should be sent to letters@the-tech.mit.edu. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without the express prior approval of *The Tech*. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of *The Tech*, and will not be returned. *The Tech* makes no commitment to publish all the letters received.

To Reach Us

The Tech's telephone number is (617) 253-1541. E-mail is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to general@the-tech.mit.edu, and it will be directed to the appropriate person. *The Tech* can be found on the World Wide Web at <http://the-tech.mit.edu>.

Erratum

An article on Tuesday ["Orientation Activities Impact Dormitory Rush"] misspelled the given name of the Baker House rush chair. She is Lori A. Eich '03, not Laurie.

Justice for Janitors Now

Stephanie W. Wang

It's easy to take Boston and Cambridge for granted once one has been at MIT for a while because we always expect it to be there whenever we want to eat decent food, buy used books or CDs, or explore one of the countless options these cities have to offer. By the same token, we never expect the halls and classrooms of MIT to be any different each time we head to class. However, try to imagine the cities or our campus without janitors cleaning them every single day, often at hours when we have already gone through a few REM cycles.

It's easy to forget about their hard work when they have never let us down with their dedication and have maintained a clean environment in which we can study, work, think, and play. Unfortunately, the building owners, of which MIT is a prominent one, and cleaning contractors in the Boston area have let the janitors down with low wages, a lack of opportunities for full-time work, and no benefits such as health care for most.

More than 10,000 janitors in the Boston area, which includes Cambridge, working in more than 1,000 buildings, are all under the same master contract as members of the Service Employees International Union (SEIU). Over seventy-five percent of the janitors only have part-time work, which usually means four hours every night, and at a wage of about \$10/hour, they are only able to earn around \$40 every day. According to the federal Department of Housing and Urban Development, the cost of renting a one- or two-bedroom in the area is on average around \$1000-\$1250 and that's not even factoring in other basic amenities. Thus, with a cost of living that is one of the highest in the country, many of these janitors are forced to work multiple jobs to support their families. To add to the insult of struggling to provide for their families with long hours and tough work, since many have several

MIT has a responsibility not only as an academic institution, but also as a building owner in this case, to uphold basic workers' rights to a decent standard of living.

been able to get away with the greed thus far. After all, according to the SEIU, implementing all the demands proposed by the union would only constitute less than half of one percent of average building incomes. I hardly think that would qualify as a financial constraint for building owners who can command such high prices for hot Boston property.

You may ask, what does all of this have to do with MIT? After all, aren't the janitors who are directly employed by MIT paid about \$15/hour with good benefits? This may be true, but MIT also contracts out for more than one hundred janitors who are under this master contract. More importantly, MIT happens to be the largest commercial property owner in Cam-

With a cost of living that is one of the highest in the country, many of these janitors are forced to work multiple jobs to support their families.

bridge, and in all the buildings that MIT owns, from Technology Square to University Park, the janitors who maintain them are also covered under this master contract.

So ask yourselves: does it make any sense that, while the janitors who work at MIT can earn \$15/hour and have benefits such as health insurance, the janitors working part-time in a building owned by MIT down the street are making only \$10/hour with no health insurance? MIT has a responsibility not only as an academic institution, but also as a building owner in this case, to uphold basic workers' rights to a decent standard of living. MIT collects ever-increasing tuitions from its students and constantly asks for donations from alumni for "the evolving campus," the research projects, and the expansions into Cambridge. What about the more than one hundred janitors working on campus who are under the master contract? Why are they not treated equally to the direct employees of MIT? Is MIT's endowment so low that it is simply not feasible financially? It is time for MIT to recognize that the janitors who clean our campus and MIT-owned buildings are just as integral to the MIT community as any student or member of the faculty or staff.

The good news in this dismal situation is that janitors under the master contract, which is expiring at the end of August, are no longer going to accept these horrid conditions. They are standing up for a better life for themselves and their families. For the majority of janitors, who are immigrants,

they have lived the American nightmare rather than the American dream. MIT must take a stand as the largest commercial property owner in Cambridge, just as the City Council of Boston, the Boston Globe, and countless other organizations and individuals have done, and tell those in negotiations with the SEIU that no opportunity to full-time

work, no health insurance, and low wages for the more than 10,000 janitors simply aren't acceptable.

Oh, the Humanities! The Burdensome HASS Requirements

Guest Column
Gretchen K. Aleks

Right now, most MIT students are planning for the impending start of classes next Wednesday: buying or scavenging textbooks, enjoying themselves when they still have the time and energy, and finalizing class schedules. For many students, deciding on the science classes is the easy part. Most are predetermined by each department, and if the order and content of classes are not wholly decided, there is at least a set of general guidelines within each major of what classes to take when. The most "choice" in most MIT undergraduates' schedules is in selecting HASS classes.

The HASS requirement states only that all MIT undergraduates must take eight humanities, arts, or social science courses before graduation, with the stipulation that three come from a pool of designated HASS-distribution courses, and three classes work together to form a cohesive concentration. Although this system seems to allow for nearly absolute freedom of choice, restraints set both by a student's "major" schedule and by the HASS departments themselves make this system detrimental to a student's humanities education as a whole.

The big mistake in the HASS system at MIT is in requiring undergraduates to take three courses that are labeled "HASS-D". While encouraging or even requiring students to experience courses in various areas of the social sciences is laudable, requiring that this distribution courses be drawn from a special category is not. Many of the courses labeled HASS-D are large lecture courses where a student gets little or no individual attention from his or her professor. While this system is expected from, and perhaps even works for, introductory science courses, it seems less efficient for a subject whose focus, optimally, is the exchanging of ideas rather than the instilling of facts. Also, the

number of HASS-D courses offered in a term is limited, and the number of students admitted to a HASS-D is further limited by lottery. Many students, attempting to fulfill their distribution requirement, enter the lottery for any HASS-D that fits into their schedule already limited by mandatory lab classes that meet for up to 4 afternoons per week, even if that class is of no or little interest to them.

It would make more sense for the scope of what courses can be used to fulfill a distribution requirement to be broadened. The majority of HASS courses should be given an area designation, equivalent to the area designations currently given to HASS-D courses, so that students can have greater freedom both in choosing a topic that is of interest to them and one where the structure of the class is most to their liking. Restrictions could perhaps be placed on what classes receive an area designation; for instance, 14.01, albeit a HASS class, requires little writing for successful completion of the course. If the administration wishes to preserve the twenty-page writing requirement characteristic of all HASS-D courses, they could eliminate any HASS that does not have an evaluative focus on writing or oral communication.

However, most HASS classes require a minimum of twenty pages of writing a term and are not currently designated HASS-D. By broadening the scope of classes that can be used to fulfill a distribution requirement, the administration would do a service to the undergraduate community by allowing students a greater share in deciding what classes are most interesting and meaningful to

The idea of requiring a HASS concentration is tantamount to the administration saying, "There's a lot of red tape out there, kid. Might as well practice dealing with it before we allow you to graduate to the real world."

to concentrate in an area should have that option, while students who desire that their HASS education be more exploratory should have that freedom.

Gretchen K. Aleks is a member of the Class of 2004.

The Cobb County Decision

Creationism Should be Taught as a Social Science

Jyoti R. Tibrewala

The Cobb County school district in Georgia recently adopted a policy requiring biblical interpretations of the origins of life to be stressed in schools as much as the theory of evolution. This policy passed amid uproar from many that this was a backdoor route to having public schools endorse religion.

All the separation-of-church-and-state fanatics can calm down. Religion is already taught in schools in social studies classes. In world history, the basic tenets of the major religions in the world areas studied are introduced to students. The unit on Southeast Asia includes some basic information about Buddhism and Hinduism, for example. Likewise, I can recall learning about Catholicism and other western religions to a degree in my tenth grade European history class. Some basic understanding is needed to effectively understand the cultures of various peoples.

Teaching creationism will not necessarily ingrain it in students' minds. It will merely expose them to the existence of another theory on life's beginnings. The more theories students are exposed to, and the more each theory is taught, the more well-informed students will be when comparing theories and deciding which makes the most sense to them.

On that note, a study in 2000 conducted by Lawrence Lerner of the California State University at Long Beach found that one third of schools in the United States do not teach evolution. Exposing students to only creationism and not evolution is no better than teaching evolution and banning creationism.

There are many critics of creationism in the scientific community. One major qualm they have with teaching creationism in science classes is based on the nature of scientific observation and theory. Science tends to be characterized by the questions "Why?" and "How?" and also by the ability to provide answers to these questions with laboratory data or field evidence. Creationism doesn't really have laboratory data to offer up in support of itself. The best it can do is to discredit the evidence of evolutionists.

Furthermore, some evolutionists point out

The more theories students are exposed to, the more well-informed students will be when comparing theories and deciding which makes the most sense to them.

the fact that each religion's story of creation differs. Therefore, to do justice to creationism, all the stories would need to be taught, each with equal weight. Then, the argument goes, one is dealing with comparative religion, not science.

On both fronts, the evolutionists have a point. Science classes can't very well teach material that can not be backed up scientifically. Likewise, science class is not the appropriate place to contrast the many religions of the world. It also wouldn't be fair to stress one creation story as being more important than another, simply because the two represent the beliefs of different religions.

So then teach the various creationist theories in a social studies class. Who said that science was the only type of class taught in school? Students can be just as exposed — if not more so — to creationist theories in a social studies class. After all, social studies is the subject in which one studies different peoples and their beliefs and values.

There is no harm in teaching creationism in schools. Perhaps the appropriate subject area (in which it should be taught) needs to be decided upon, but the properness of even teaching the subject matter should not be a concern. Students will be better off for learning creationist theories in school. They will emerge as more well-rounded individuals, with richer educational experiences and more ideas from which to choose a belief system. Since when is a more complete education a bad thing?

Filler SpaceSHOULD
YOU
LIVE IN A
DORM
?

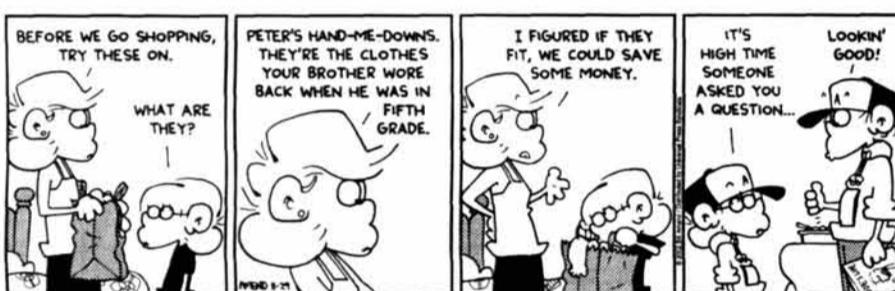
OF COURSE!

CONSIDER THE ADVANTAGES:



FoxTrot

by Bill Amend



Dilbert® by Scott Adams



Crossword Puzzle

Solution, page 11

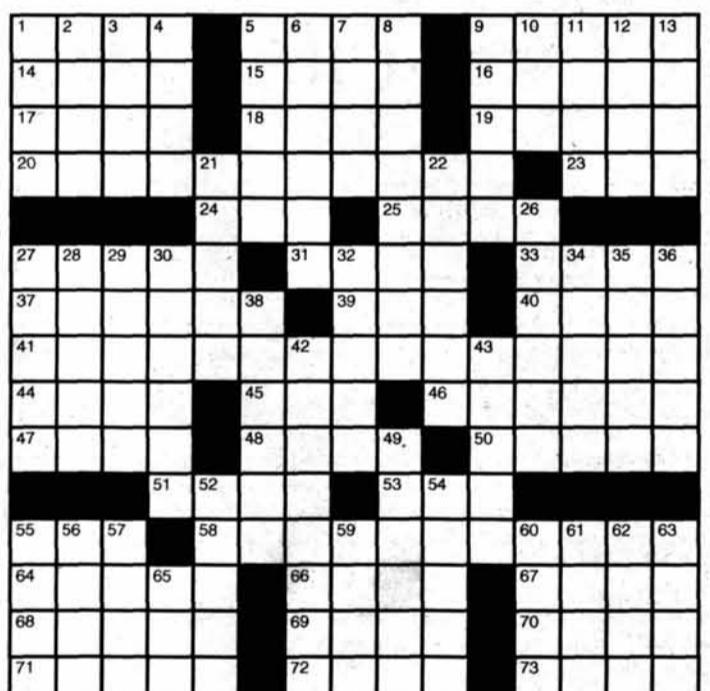
ACROSS

- Freshwater fish
- Writer Oz
- Yours, long ago
- "SportsCenter" stn.
- Opera star
- Like Cheerios
- Needle case
- Lenin Peak's range
- Work, as dough
- Betty Grable film
- 1/2 of a marriage
- Oxford fellow
- "Here to Eternity"
- Garlic-basil sauce
- Melange
- Cantor and Lupino
- Huns' leader
- Adherent's suffix
- Gun maker
- Gordon Lightfoot

hit
44 Self-images
45 Gerundial ending
46 Gives instructions to
47 Actress Moore
48 Dundee dagger
50 Coeur d'_, ID
51 Eur. defense assn.
53 Seaman's org.
55 Na Na
58 Caldwell novel
64 No-man's land
66 Actress Kedrova
67 Run without moving
68 French water-bottler
69 Writer Bagnold
70 High time?
71 Doorstop
72 Lather
73 Earl tea

DOWN
1 Borsch ingredient
2 City near Turin
3 Created like a web
4 Clipped piece
5 Hersey's bell town
6 City in Italia
7 Track shape
8 Marlin's cousin
9 Godzilla's target
10 Harrison in "Star Wars"
11 News bit
12 Get closer
13 Finishes
21 First chess champion
22 Amatory
26 Legrand or Fokine
27 Set speed for

28 French floor
29 Sen. Thurmond
30 Makes a connection
32 Loyal subject
34 Use a divining rod
35 Prost or Delon
36 "Funny Girl" composer
38 Noble Brit
42 Dignifies
43 Fertilizer type
49 Geometry man
52 Do penance
54 Lots
55 Killed violently
56 Bees' milieu
57 In the thick of
59 Indigenous Japanese
60 Wedding token
61 Aroma
62 vera
63 Repudiate
65 Sack



Events Calendar

Visit and add events to Events Calendar online at <http://events.mit.edu>

Thursday, August 29

9:00 a.m. - 5:00 p.m. - Physical Education Lottery. PE Course registration period. MIT athletic card Required for registration.

Students register thru Websis. Non-students come to PE Office (W32-125) Please note that the lottery closes at 1pm sharp on 9/4/02, no exceptions. free. Room: W32-125. Sponsor: Physical Education.

9:30 a.m. - 4:30 p.m. - Course Catalogue Distribution. Anyone with an MIT ID can come by Room 8-119 and pick up a copy of the 2002-2003 course catalogue. free. Room: 8-119. Sponsor: Reference Publications Office.

10:00 a.m. - 11:00 a.m. - All About UROP. What is UROP and how do you find one? Come and learn all about the Undergraduate Research Opportunities Program. free. Room: 54-100. Sponsor: UROP.

10:00 a.m. - Admissions Information Session. Admissions Office Information Session gathers at the Admissions Reception Center (10-100). Enter MIT at the main entrance, Lobby 7, 77 Massachusetts Ave (domed building with tall pillars). Proceed down the center corridor to Room 10-100 on the right. free. Room: Admissions Reception Center, Building 10, Room 10-100. Sponsor: Information Center.

10:45 a.m. - Campus Tour. Student Led Campus Tours are approximately 90 minutes long and provide a general overview of the main campus. Please note that campus tours do not visit laboratories, living groups or buildings under construction. Groups over 15 people need to make special reservations. Campus tours start at the conclusion of the Admissions Information Session. The Campus Tour begins in Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). free. Room: Lobby 7 (Main Entrance Lobby at 77 Massachusetts Ave). Sponsor: Information Center.

12:00 p.m. - 1:00 p.m. - Eudora Quick Start. This session shows how to configure Eudora, create messages and address lists, send and receive attachments, and sort incoming e-mail. Room: N42 Demo. Sponsor: Information Systems.

12:00 p.m. - 2:30 p.m. - Welcome Lunch for the Families of Graduate Students. Lunch and entertainment will be provided for spouses and children of graduate students while the students attend the official MIT Welcome by President Vest. free. Room: Lawn behind the MIT Chapel. Sponsor: Graduate Student Council, spouses

Events Calendar appears in each issue of *The Tech* and features events for members of the MIT community. *The Tech* makes no guarantees as to the accuracy of this information, and *The Tech* shall not be held liable for any losses, including, but not limited to, damages resulting from attendance of an event.

Contact information for all events is available from the Events Calendar web page.

es&partners@mit, MIT Medical.

12:00 p.m. - 1:00 p.m. - Ice Cream Social. Treat yourself to some refreshing sweets and meet the F/ASIP team. free. Room: President's Courtyard-right off the Infinite Corridor. Sponsor: Freshman Alumni Summer Internship Program.

1:00 p.m. - 3:00 p.m. - Conversational English Class. Join us for a free conversational English class for international students and spouses at MIT. Most attendees are women able to speak freely who desire to increase their English skills. Class covers a variety of topics including American culture and holiday descriptions. Free. Room: W11 Board Room. Sponsor: Baptist Campus Ministry.

1:00 p.m. - 2:00 p.m. - Weight Watchers at Work meetings at MIT. New and returning members are always welcome at this weekly meeting on weight control. Friendly, relaxed lunch hour meetings. More info: tpriest@mit.edu. Room: Building 8-219. Sponsor: Information Center.

2:45 p.m. - Campus Tour.

3:30 p.m. - 4:30 p.m. - Getting Connected to MITnet. This lecture will help guide you through the process of configuring your laptop or home computer to connect to MITnet so that you will have access to online services available to MIT community members only. Attendees will learn about the different options they have for connecting to MIT from on and off campus. In addition, all attendees will receive a CD containing the necessary software for accessing MITnet and MIT's online services such as e-mail and WebSIS. This session is highly recommended for all incoming graduate students, visiting scholars, and new faculty and staff. Room: 4-370. Sponsor: Information Systems.

- Freshman/Alumni Summer Internship Program (F/ASIP) Information Sessions. Come to one of the two one-hour sessions 11 a.m. & 1 p.m. in 4-370.

Interested in having a challenging and meaningful summer internship after your freshman year? F/ASIP administrators will talk about other students who have participated, go over the curriculum, as well as the application process. Don't miss this opportunity, there are only 75 spots this year! free. Room: 4-370. Sponsor: Freshman Alumni Summer Internship Program.

Frosh Bravely Face First MIT Math Test

Test, from Page 1

Urban Program, and most importantly the respect of Nora Buchanan, who taught me this stuff back in my senior year of high school.

After a long string of personal foolish mishaps, such as locking myself out of my dorm room, going to the wrong test room, and forgetting a pencil, I finally got into 10-250 half an hour late. I was nervous that today wasn't going to be the day to test my intelligence.

For full effect, I wore my South Lakes High School Seniors shirt to make my freshman appearance all the more convincing. The overseer eagerly accepted my apology about tardiness (I didn't even have to use my excuse about being at a mandatory event) and let me sit in the fourth row. I felt pleased to appear so young. Miraculously, the graduate student who asked to see my ID Card did not notice that it expired in 2004 and not 2006. Thus I was able to finish the test without incident.

A big boost of confidence hit me after I breezed through the first two pages of the test. I was halfway done in half the time allotted to the freshmen! When a tough problem arose, I found that most of my time was spent recalling classes from BC calculus, not really applying examples that I had learned.

Of course disaster had to hit. On the final page, I came to the realization that I couldn't do the first thing with integrals. I could work with approximations, but anything with more than two 'x's threw me for a loop. It was panic time. I tried to go back to the first page and think back to what implicit differentiation meant, but of course to no avail.

By this time, the really smart people were turning in their papers. There is nothing more detrimental to a test-taker than someone clomping to the front of the room and handing in his or her paper, reminding you that you must be stupid for not yet finishing. I kept telling myself that I arrived late and wasn't even taking the test for credit, but I couldn't keep focused. Stupid smart freshmen.

What impressed me the most was the confidence that freshmen seemed to display during their tests. Here they were for their first real MIT test in an intimidating lecture hall and already under an

extreme amount of duress, but none of them showed the slightest bit of quivering. I commend the freshmen for the job they did and hope that their nerves stay for the rest of their years.

I felt confident when I finished the test. Botching three of 15 questions still gives me around an 80 percent, so that's still above passing. And I'm on pass/fail, right?

How smart is you?

As a researcher, I felt a tad unsatisfied from the test. How helpful is just one person's experience? So recalling some of the problems that I just faced, I wrote up *The Tech's* own calculus quiz and took it to the streets.

I was actually also hoping to find a mathematics professor and grade him really harshly, but with classes a week away, it was a tougher job than I expected. Getting students to take a math test was no picnic, either. I frequently heard the phrase "I'm no math major!" as I walked around campus. "I don't want to do it," said one senior. "I did better with a high school style teaching, and I think that's why I had a problem with the math classes I took here." Fellow *Tech* staffers even refused to take the quiz knowing that I couldn't print their results.

Others wanted to try and skew the results. "Go speak to somebody on Fourth West! They'll know it!" said an East Campus resident.

I was quite surprised to see how often people failed to remember the most basic elements and rules of the subject. It was almost a replica of the "don't drink and derive" t-shirt with a few other errors they forgot. Usually, a test-taker was a well-oiled integrating machine or a very rusty one. Others had lost their batteries completely.

While polling was entertaining, I wasn't really able to draw any conclusions about retention or class intelligence from the test. All I can say is I felt a lot better when I was no longer in the hot seat and became the 18.01 sage (because I had memorized the answers). I also felt like I was doing a public service, as many people made a vow to brush up on their math skills for next term.



Student Pugwash

MIT Student Pugwash is one of twenty-seven chapters of Student Pugwash USA. We encourage all students to consider the ethical implications of science and technology from the development of weapons of mass destruction to genetic engineering, and to make these concerns an important part of their academic and professional lives. See us at the Activities Midway, email pugwash-request@mit.edu, or visit us at web.mit.edu/pugwash.



Need some paper?

These questions were modified from ones that were given on Wednesday morning's 18.01 (Calculus) advanced standing exam. Participants' answers are direct quotes made while writing out or verbally explaining the problem. To protect the dignity of some participants in this survey, the interviewed were able to classify themselves in any way they chose, though they had to provide their year. Questions are weighted evenly, with sub-questions given 10 percent apiece. Arithmetic errors were given half credit. The real 18.01 test required students to receive a grade of 70 percent or higher to pass out of the class.

For a challenge for the readers, answers are not listed, though solutions and solution methods can be discerned from the responses.

1) *Find the maximum possible area of a rectangle that could fit in the space between the x-axis and the parabola $-2x^2 + 8$.*

2) *No paper needed. What is the value of the limit as R approaches zero of $(\sin(\pi + R) - \sin(\pi))/R$?*

3) *Differentiate the following:*

- a) $\sin(\sqrt{x^2 + 1})$
- b) $x^2 / (x^4 + 2x^2 + 4)$

4) *Using implicit differentiation, find the slope at (1, 1) on the curve $y^2x^2 + x^2 - 2y^2 = 0$.*

5) *Integrate the following:*

- a) $\sin(3x + \pi)$
- b) $x^2 / (x^3 + 2)^2$

Two graduate students, French

(Note: The two students conversed in French and showed me the answers after finishing)

1) *One argued with the other not understanding the method he was using. Eventually, he was won over. (Correct)*

2) *(Correct)*

3a, b) *(Correct)*

4) *(Correct)*

5a, b) *(Correct, though they complained that it was a difficult problem.)*

Total: 100%

Sophomore, Female, Asian

1) *OK, for this you have to take the Reimann or Rye-man sum, either that or you take the integral of the parabola. No? (Incorrect)*

2) *No, I can't do that one. (Incorrect)*

3a, b) *Fuck, I don't care. That's too much work. (Incorrect)*

4) *Differentiate each segment and place them together? That takes too long. (Incorrect)*

5a) *Sin of 5x plus pi times — no, divided by five. And a negative sign. No! Cosine! I eventually got it! (Partial credit)*

5b) *Oh man. (Question changed to identify the method needed) What method? I don't know that. (Question changed to what term would be needed for substitution) What term? OH! u! That would be $x^3 + 2$. (Partial credit)*

Total: 10%

Junior, Next House

1) *Draw the parabola ... ok, then write a function $f(x) \dots g(x)$, which would be the function squared ... ok give me some paper. (Draws a positive parabola) Damn you. (Draws a negative parabola) Hell, the hard part is writing the function here. (Incorrect)*

2) *That's the cosine of pi, so that's negative one. (Correct)*

3a) *Oh, these are evil. (Writes answer) This is a chain rule problem. (Correct)*

3b) *Well, I only know the product rule so I'll do it the hard way. (Correct)*

4) *(derives equation, pauses to recall to factor out dy/dx for each term) so now I can just plug in the coordinates and y prime is negative four. (Correct)*

5a) *So this would be ... what? I forgot the plus C? (Incorrect)*

5b) *OK, well you have to do substitution. Now I don't remember how to do it. Let me keep going. Oh, now the problem is simple. And I replace the u ... that's it. (Correct)*

Total: 70%

Junior, McCormick

1) *Easy. You plot the two on the X-Y coordinate system and take the line ... draw the two ... Wow, this has been a while. It's almost embarrassing. Take the integral between the two lines? Ok, I don't know. (Incorrect)*

2) *Either simplify it first or use l'Hôpital's rule. Hmm, doesn't it look like the definition of a derivative? (Incorrect, but close)*

3a) *OK, gimme a sec. You can see that I don't do these on a daily basis. How's that? Oh, I forgot the exponent! (Arithmetic error)*

3b) *All right, I'll be more careful on this one. I'm not gonna remember the quotient rule so I'll do the product rule instead. (Correct)*

4) *I don't know what implicit differentiation is! I think I'd try to graph the function to get its tangent line. (Incorrect)*

5a) *Wow. This would have been pretty easy freshmen year. Jeez. Junior's not that old. Ahh, negative cosine! (Arithmetic error)*

5b) *OK, tell the freshmen to write down as much as they can and confuse the graders and get partial credit. (Incorrect)*

Total: 20%

Compiled by Brian Loux

take the derivative of that and the critical value will be the maximum x value. Plug that back into the original equation. (Correct)

2. Man. Well, since you can't have a zero denominator ... wait (friend tries to steer him in the right direction). Nuts, I don't know. OH MAN! It's a little disheartening that something so obvious isn't recognizable after so short a time. (Incorrect)

3a) *Chain rule. Simple. (Correct)*

3b) *Quotient rule. I remember that one. Denominator derivative times the numerator minus the opposite of that ... over the denominator squared. (Correct)*

4) *Yeah, it's basically the chain rule and you have to factor out a dy/dx term each time and you're ok. (Correct)*

5a) *Hmm, pretty much the reverse chain rule. Is it indefinite? Then add a constant. (Correct)*

5b) *That's just substitution. u would be $x^3 + 2$ and we get rid of the numerator through du. (Correct)*

Total: 80%

Junior, McCormick

1) *Easy. You plot the two on the X-Y coordinate system and take the line ... draw the two ... Wow, this has been a while. It's almost embarrassing. Take the integral between the two lines? Ok, I don't know. (Incorrect)*

2) *Either simplify it first or use l'Hôpital's rule. Hmm, doesn't it look like the definition of a derivative? (Incorrect, but close)*

3a) *OK, gimme a sec. You can see that I don't do these on a daily basis. How's that? Oh, I forgot the exponent! (Arithmetic error)*

3b) *All right, I'll be more careful on this one. I'm not gonna remember the quotient rule so I'll do the product rule instead. (Correct)*

4) *I don't know what implicit differentiation is! I think I'd try to graph the function to get its tangent line. (Incorrect)*

5a) *Wow. This would have been pretty easy freshmen year. Jeez. Junior's not that old. Ahh, negative cosine! (Arithmetic error)*

5b) *OK, tell the freshmen to write down as much as they can and confuse the graders and get partial credit. (Incorrect)*

Total: 20%

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THE ARTS

FILM REVIEW ★★

Notorious C.H.O.

Leave Your Parents at Home

By Fred Choi

STAFF WRITER

Notorious C.H.O.

Written by Margaret Cho, directed by Lorene

Machado

Starring Margaret Cho

Rated R

www.notoriouschomovie.com

Margaret Cho, America's favorite fag hag, is back with *Notorious C.H.O.*, a follow-up to her successful and side-splittingly hilarious, *I'm The One That I Want*. Like *One That I Want*, *Notorious C.H.O.* is simply a filming of the live show that she has been touring the country with for the past months, but although Cho includes her trademark raunchy, no-subject-is-taboo humor and her natural charisma, the movie doesn't come near matching the brilliance of the original. Still, the movie is definitely worth seeing if you've already seen and enjoyed the first one.

There are many reasons that the movie falls short of the first. Dressed in an oddly *Howdy Doody*-esque checkered shirt, Cho seems a little subdued in her delivery, which may have been happenstance, or due to the fact the movie was taped in Seattle. *One That I Want* was taped in San Francisco, Cho's hometown, in front of a crowd that she was clearly comfortable with, and in *Notorious C.H.O.* Cho lacks her usual sparkling, slyly naughty delivery.

In addition, *One That I Want* was struc-

tured tightly in that it began with traditional comic shtrick but quickly moved into a narrative concerning Cho's ill-fated sitcom *All-American Girl* and her subsequently painful fall and bout with depression and alcoholism. This long story arc provided a framework in which Cho could delve into subjects ranging from "Asian glow" to being propositioned by a producer. Without a story arc, *Notorious C.H.O.* tends to meander from subject to subject despite Cho's smooth, effortlessly controlled delivery.

The movie also includes filler in the form of a brief cartoon segment written by Cho about how blacks and Asians should get along, brief quotes from the audience entering the theater, many giving bad deliveries of lines from Cho's first movie, and a short interview segment with Cho's parents, undoubtedly calculated to induce the audience's "Awww" reflex. All of this proves to be unnecessary padding for what is already an entertaining movie.

Despite these faults, *Notorious* makes for a good 95 minutes of Margaret Cho's trademark humor, although with rather more explicit subject matter than usual, impossible as that may sound. Familiar subjects are included, such as playful jabs at Asian stereotypes, caricatured depictions of gay men, straight men, and valley girls, and a warm, fuzzy segment near the end dutifully devoted to self-esteem issues and prejudice, along with new topics, such as getting a colonic (a segment which gets old a little too quickly), finding her G-

spot, and fisting (which, she points out, is not a new type of workout like Tae-Bo).

Among the highlights is a surprisingly entertaining extended segment on menstruation in which she imagines what it would be like if straight men had periods and quips, "They'd use old socks ... Every bachelor's apartment would look like a crime scene." Cho also shares her latest experiences in sexual experimentation and points out the eerie connection between people who like Star Trek, the Renaissance Fair, and S&M Clubs.

The show also includes an oddly moving bit about two drag queens she was friends with in high school in which she successfully conveys her admiration for high school drag queens (who she points out have to put up with more prejudice than any other group of teenagers), who have passed away, but who she likes to believe watch

over her as her "guardian drag queens."

Clearly Cho's choice in subject matter is not for the faint of heart or the less than liberal, but the movie is ideal for anyone who wants a comparable alternative to dishing it out with her or his friends at a crowded bar late at night.



ROCKY SCHENCK

Margaret Cho flaunts her trademark raunchy humor in her new movie, *Notorious C.H.O.*



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RESTAURANT REVIEW

Good Swill Hunting

Eating and Drinking in Boston and Beyond

By Winnie Yang

STAFF WRITER

First published last year, this recently updated guide is specially dedicated to the Class of 2006.

There are some that eat to live — and then there are those of us that live to eat. Being notorious for a food obsession some might consider extreme, I am frequently mistaken for a food snob. Quite the contrary, in fact; I am the least picky eater I know. I'll eat just about anything — as long as it's good. Unfortunately, there are those that would interject here, protesting that one can't possibly eat well all the time, that one simply can't afford to. Such people simply confuse Good Food with its very distant relative — and only by marriage — Fancy Food, or with the completely unrelated and often total stranger, Expensive Food. While I am not averse to ordering the pan-seared flank of wildebeest with osetra caviar-fennel pollen gelée and blood orange foam, sometimes there's nothing better than Easy Cheese on Wheat Thins.

As a foodie, I often go to great lengths to find a good meal and I devote an inordinate amount of time and attention to what I eat (see my Web page for proof). Knowing this, many people often come to me for suggestions and recommendations, and nothing pleases me more than sharing my discoveries with others. That is, one of the few things possibly better than eating is telling other people what to eat.

In my years at MIT, I've managed to compile a sizeable list of favorites — some close to home, others a bit out of the way. This is by no means a comprehensive list, as I'm still in the process of eating my way through the city. And by all means, if you feel I've missed something worth mentioning, send me an e-mail. In no particular order:

After a summer of working at Tosci's, I've decided that the best flavors are peach sorbet, lime sorbet, cowboy cookie, cocoa pudding, and coffee ice cream sandwich. There are those proud and vocal members of the "burnt caramel" camp as well, but I remain steadfast.

#17 (small) and #31 (with beef and the flat rice noodles) at Pho Pasteur (Harvard Square location).

Wang's Fast Food (Old Magoun Square, Somerville) has the best dumplings around (but still don't hold a candle to my mom's, natch). Stick to the "Northern Specialties" section in the menu and you can't go wrong. The sautéed pea pod stems are also excellent. They've got my glowing review plastered all over the premises (not that that influences me in any way, mind you).

The country-style pad thai at Brown Sugar Café (Fenway) is peerless in this town. Khao Sarn (Brookline) is another worthy Thai establishment, and their *miang kum* is a heady and addicting combination of shrimp, coconut, and peanuts that you roll up in spinach leaves.

Chocolate chip scone at the MIT Coffeehouse.

The honey barbecue chicken sub with a slice of cheese and the BLT on wheat with mayo at LaVerde's. Or do yourself a favor and skip the sandwich, run to the dairy aisle straightaway and get yourself a nice big tub of Kozy Shack Original Rice Pudding.

The Story, at Darwin's (Harvard Square). A definitive sandwich best eaten perched on a stool at the butcher-block tables. Or in a window seat in the newly finished pastry/coffee section next door. The Mount Auburn with swiss comes in at a close second. Darwin's also carries Kozy Shack Original Rice Pudding.

The foie gras and warm chocolate pudding at Clio (Back Bay). Both velvety and rich. Both revelatory.

The Miracle of Science does a mean veggie burger. Best doused with both the Inner Beauty Papaya Mustard and Real Hot Sauce and washed down with a Magic Hat No. 9.

Best sushi, hands-down: Oishii (Charlestown). Maybe twice the size of my dorm room senior year and sometimes a two-hour wait, but totally worth the trip. Skip the usual boring maki and try one of the specials. The sushi chef's credentials are no less than a stint at New York's famed Nobu.

On one side of Filene's in Downtown Crossing, there's a take-away counter that dishes out *chacareros*, the delectable Chilean sandwich of grilled meat (I prefer the steak to the chicken), avocado spread, sundry fresh vegetables, and sautéed green beans (that would be the Chilean part, apparently), all on a large fluffy roll made in-house daily.

Octopus salad at Atasca (Kendall Square). Briny and tender, this is one tasty cephalopod.

The Jimmy Carter at The Wrap: a peanut butter, banana, and ice cream smoothie. Friendly, just like our former president.

Best all-around high-end restaurant: Radius. I've hung out in the kitchen for several months and seen first-hand their relentless pursuit of perfection in all aspects of the dining experience. The attention to detail is mind-boggling. If you ever eat a salad there, note how beautiful each leaf of lettuce is. Somewhere back in the bowels of the place, there's someone who hunched over enough greens to sustain all the rabbits in Australia and painstakingly selected only those that are flawless and blemish-free. Yeah, I did that for four hours once. Needless to say, you better finish that salad.

Mashawna soup at The Helmand (East Cambridge). Hearty and spicy, this is perfect on a bitterly cold New England day.

In my exhaustive (and exhausting) search for the best blueberry pancakes ever, I've determined Johnny's Luncheonette (Central/Harvard) to be the winner. Not too dense or too fluffy, these pancakes have nicely crisped edges and are loaded with berries.

Just about anything at Sultan's Kitchen (Downtown/Financial District). All other Middle Eastern places pale in comparison to this Turkish gem.

Xiaolongbao at Taiwan Café (Chinatown). I haven't yet figured out how to eat these Shanghai-style soup dumplings without scalding myself or spilling half the contents onto my lap, but they keep me coming back to this little hole-in-the-wall. The oyster pancakes, though not like my mom's, are not to be missed. Eggplant with basil is quite tasty as well.

The Il Panino panini at Il Panino Express (North End), like the Darwin's Story, combines the holy trinity of prosciutto, fresh mozzarella and tomatoes, but stuffs generous amounts of everything into a foot-long crusty Italian loaf slathered with a fruity and robust extra virgin olive oil.

The Superburrito at Anna's Taqueria. Apparently, some journalist for *The New York Times* took the four-hour Chinatown shuttle from Manhattan to Boston and back solely for one of these burritos. I personally find that completely ridiculous, but only because it's hard to believe that there are no better burritos to be found in New York City. It is pretty damn good, though. And cheap.

Crème brûlée at blu (Downtown Crossing).

Hiroshimayaki at Kiyoshi (Brookline): the proprietor's version of that tasty Osakan specialty, *okonomiyaki*. The menu claims these pan-fried noodles are "healthy," but somehow, the shiny slick coating on the noodles under that generous drizzling of mayonnaise leaves me thinking otherwise. The chicken skin and chicken bone yakitori are also not to be missed.

Bertucci's rolls.

Speaking of Bertucci's, do yourself a favor now and

lose the fascination with their overrated pies. For fancy pizza, go to Emma's (Kendall) or Figs (Beacon Hill & Charlestown). For real pizza, get thee to Santarpio's in East Boston.

I salivate just thinking about the goat curry or the stewed oxtail at Rhythm & Spice. Get it with roti instead of rice and beans. And don't forget the fried plantains (I usually prefer the green kind).

Best breakfast, part I: potato pancakes and banana-stuffed challah French toast at Zaftigs Delicatessen (Brookline). Everyone seems to offer a version of challah French toast, but none do it like the fat lady. Decent borscht as well.

Best breakfast, part II: Belgian waffle at Neighborhood Bakery and Café (Union Square, Somerville). Comes with the most delicious bowl of Cream of Wheat you'll ever taste.

Lemon and sugar crépes at Le Gamin (South End). The butter and sugar ones are also excellent. Less French ambience than in years past, but still a charming place. Good for a first date. Mr. Crêpe (Davis Square) is cheaper and less charming, but a fierce contender.

Butternut squash soup at Salts (Kendall). None better.

N6 at Rod Dee II (Fenway): pan-fried rice noodles that are all greasy goodness. I'm also a big fan of the golden triangles here.

The mrouzia at Argana (East Cambridge) is one of the best braised lamb dishes in the city (Second only to Amanda Lydon's much-lamented gigot à sept heures at Metro. She's since left for bigger and better things, taking her tasty lamb with her). For lamb loin, there's Radius (Downtown/Financial District). You can almost taste the sweetness of the grass the little fuzzy guys were raised on in each meltingly tender bite.

Some people go to Wuchon House (Union Square, Somerville) for their *bulgogi* or the *kalbi*; I'm there for the tofu *chigae*. You know Korean food's good when the sweat starts pouring and your nose starts running.

"Regular, extra spicy," is what one should request at the little kiosk in the corner of Thai Binh Supermarket (Chinatown). For a mere two

dollars, you'll get a sizeable *bánh mì* sandwich. Pronounced "bagne-mee," where "bagne" is like the French pronunciation of "champagne," this is one of the few miraculous results of colonialism: a Vietnamese sandwich that combines tangy pickled carrots and cucumbers with a rich pork pâté and slices of ham and other lunchmeats, all on a crusty, buttery, slightly toasted French baguette (or mini-baguette). There are a multitude of versions, each with different fillings, but this is the standard.

Best Indian: Tanjore (Harvard Square) and Punjabi Dhaba (Inman Square).

There's also the *korma* from Bombay Café (Back Bay/Symphony). Be sure to specify "as hot as your grandma makes it." Probably best to stick to delivery here.

The egg tart at Ho Yuen Bakery (Chinatown) has a tender, flaky crust and a silky custard filling with just a hint of sweetness. Yum.

Roti canai and *kangkung belacan* at Penang (Chinatown or Harvard). The first is an addictive, chewy fried bread, accompanied by a curry dipping sauce, while the other is sautéed greens (water convolvulus) dosed with the distinctive, pungent Malaysian shrimp sauce.

Mango juice with lychee at the Chinatown Eatery. The counter here is bedecked with signs listing dozens of flavors of smoothies, juices and teas, some of which come with those gummy — yet strangely appealing — marble-sized tapioca balls. If you go for the more well-known pearl milk tea, the extra-wide straws serve particularly well for launching the balls at unsuspecting passers-by.

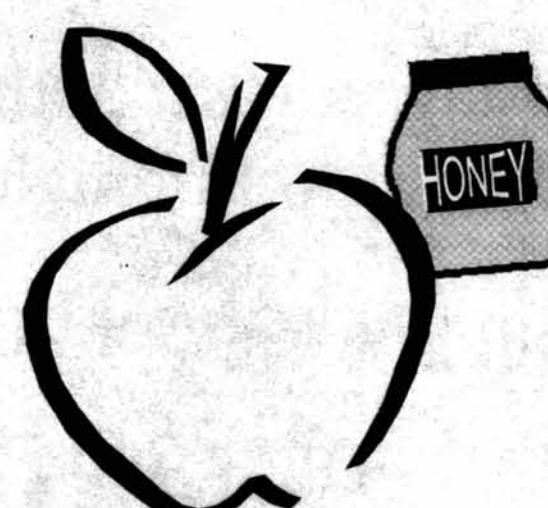
Best flan (and overall Mexican), Tu Y Yo (Powderhouse Square, in Somerville).

For those fortunate to have access to a kitchen and a serviceable knife and pot, I recommend that you leave The Joy of Cooking on your mother's shelf and get a copy of Mark Bittman's *How to Cook Everything* and Cook's Illustrated's *The Best Recipe*.

Winnie Yang '02 is heading off to New York City to pursue a career (and fame and fortune) as a food writer. More restaurant reviews and gastronomic tidbits can be found at her Web site: <<http://www.that'swhatyouthink.com>>.

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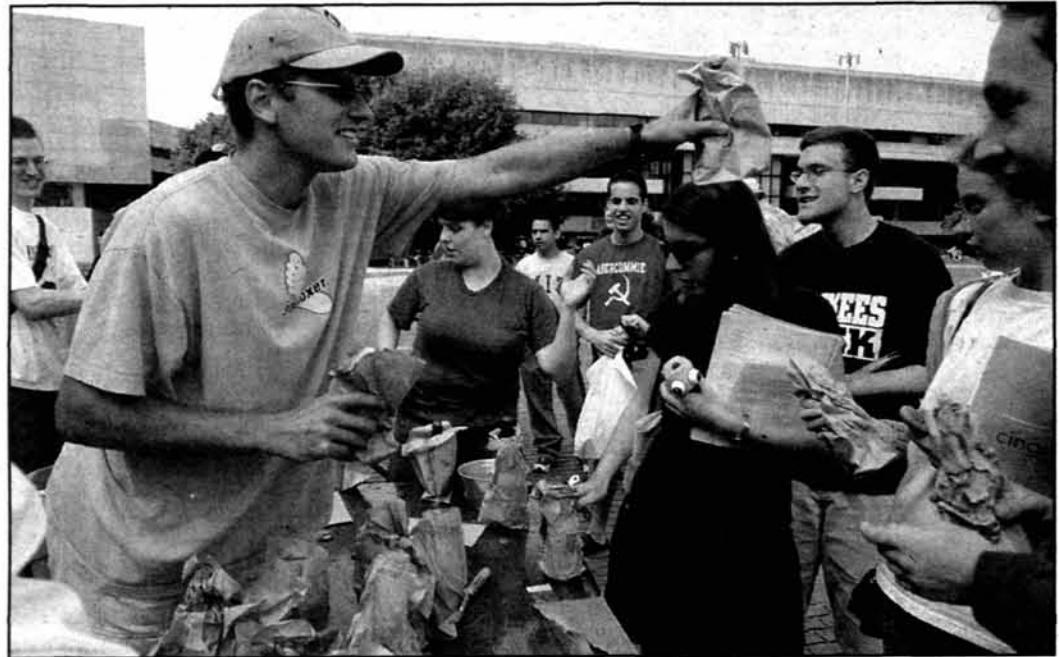
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AARON D. MIHALIK--THE TECH

Joseph C. Stark '03 hands out a brown-bagged IBC root beer in front of Kresge Auditorium on Wednesday afternoon. Although the east side housemasters came to an agreement with Larry G. Benedict, Dean for Student Life, and Robert P. Redwine, Dean for Undergraduate Education, that the students could protest as long as they didn't enter and disrupt the event, Barbara Baker, the Associate Dean for Student Life Programs, Elizabeth C. Young, the Assistant Dean of New Student Programs, and Michael W. Foley, Associate Director of Operations of the CAC, removed the group because another group had the space reserved. Stark and others were removed from the Kresge area. The "Tech Theater" was performing in Kresge at the time.

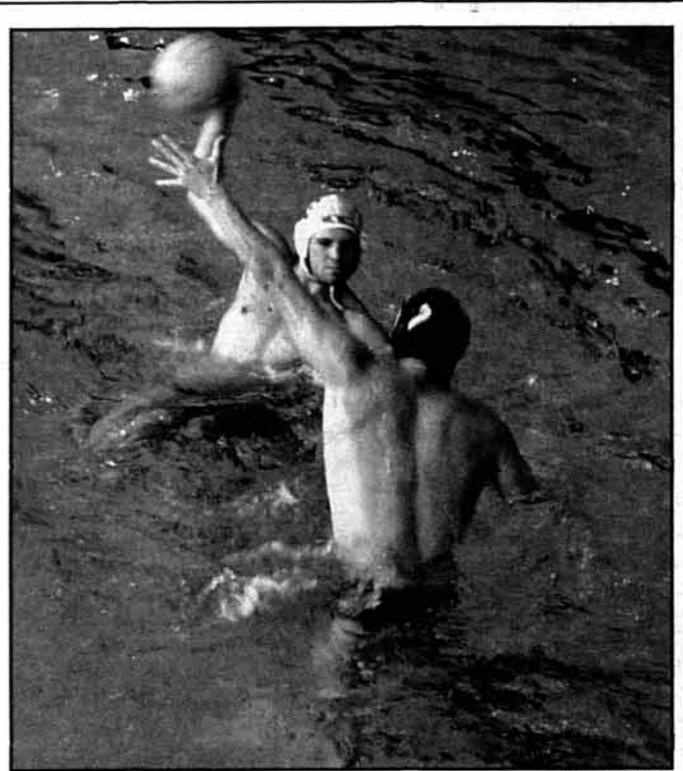
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ANDREW WOOL

Water polo continues to practice in the Alumni Pool this week. The first home match will be on Wednesday, Sept. 25 at 7 p.m. versus Brown University. The match will be held in the new Zesiger Center pool.

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Institute Stops Spread Of Image

Comic, from Page 1

gies to her.

Edwin Thomas could not be reached for comment.

Artists confront Institute

Upon learning of the alleged infringement, the Lai brothers consulted an attorney, who sent a letter to MIT requesting that it cease and desist all reproduction of the cartoon. Though MIT stopped distributing the image, the Institute denied that its use of the image infringed on the rights of the comic creators.

"Neither MIT's limited use, nor the subsequent news reports, had any effect upon the potential market for or value of the image," wrote an attorney representing MIT in a response to the Lai brothers' request. The letter also stated that MIT's use of the image was legally protected because the image was used for non-profit purposes.

Lai, however, said that his comic book's reputation was negatively affected by MIT's actions.

"We're trying to sell something as fantasy, and MIT's using the image saying this is real," Ray Lai said.

Lai also said that several comic readers have mistakenly accused him of copying the image from MIT.

Scott Farmelant, a spokesman for Horizon Comics, the publisher of *Radix*, said that the comic book has ceased publication since April because of "clouded issues of ownership" arising from MIT's use of the soldier image.

"It's really sad. These guys spent seven years developing this comic book," Farmelant said. "They're afraid the same thing could happen again."

At this time, neither the Lai brothers nor Horizon Comics are planning any legal action against MIT. Lai told *The Tech* yesterday that he would like an apology, public credit from MIT for the illustration, and a promise that MIT would never use his work again without giving proper credit.

"As an artist, your work is who you are," Lai said in a press release from Horizon Comics. "Everybody knows you don't put your name on somebody else's work. If I went to MIT and did that, I would be thrown out of school."

Cartoon did not help proposal

Yesterday afternoon, MIT issued a statement saying that "MIT strongly supports the rights of creators and MIT regrets the use of an image that was apparently derived from another source." MIT also said again that it did not violate copyright law and that its nanotechnology grant was awarded on the technical merits of MIT's proposal.

A spokeswoman from the Army confirmed that the grant decision was based on the substance of the proposal.

MIT beat out Cornell, Caltech

The U.S. Army awarded MIT the \$50 million grant to develop new materials to equip the soldiers of the future. Several universities including Cornell, Rensselaer Polytechnic Institute, and the California Institute of Technology competed for the Army grant. The nanotechnology institute will focus on technologies that could one day allow its users to absorb bullet impacts without harm, make 20-foot high leaps, and become invisible, among other things.

Radix was first conceived by Ray and Ben Lai in 1995 and published its first issue in December 2001. The fictional characters in *Radix* possess abilities similar to those envisioned for soldiers.

Transitions to House Games, Pool Tables

Renovations, from Page 1

ed upon the changes after a Strategic Review and Physical Space Assessment, released last January, reported the unwelcoming entrance and lack of sufficient lounge space in the Student Center as a critical issue facing the MIT community.

"This was our attempt to follow the suggestions of the study," Walsh said. "It really will help to rejuvenate this area."

Game room gets license hearing

MIT is currently applying for a Cambridge license to move the game room into Transitions Lounge.

The hearing for the request will take place on Sept. 3 before the Cambridge License Commission, and no changes to Transitions can be made to the room before this time. Painting of the first floor, however, is almost completed.

"Before deciding on the new color scheme, we consulted thirty to forty people in the Student Center and asked what they thought of it," Walsh said. "The whole reason we're making these changes is so people will use the first floor. We don't want to shut them out or have them not like it."

Students who use the Student Center on a regular basis have mixed feelings about the new changes.

"I think that a new lounge on the first floor will be nice because people will be more likely to stop there than they used to," said Andrea Noronha '03.

"I don't really see the need for the first floor lounge. I like the amorphous structure of the way the first

floor is now," said Tatin Misra G.

New Latino lounge first of its kind

The new Latino cultural center will be the first of its kind on campus. Suggested plans for the new facility include office and meeting space for student groups, an Athena cluster, a media library, and lounge space.

"The need for a gathering place for Latino students has been present for a good while," said Kateri A. Garcia '03. "A lot of hard work and research [from former and current students] has been done to get this far."

The new office will have a part-time adviser for Latino students. Students from the Office of Minority Education will also work to maintain the community atmosphere.

All Latino student groups will have access to the facilities.

"I think a central place for Latino groups will be really helpful in bringing the community together," said ClubMex President Raymundo Arroyave G. "In the past years we've been trying to get MIT aware of the relatively important Latino community on campus."

Although the organizations La Union Chicana por Aztlan and the Society for Hispanic Professional Engineers both currently have office space inside Walker Memorial, they are looking to relocate to the new cultural center.

"We're doing a lot of fundraising now and trying to reach out to past alumni," Garcia said. "We're hoping to have the cultural center completed by the end of this semester."



John Pacheco of Hughes Brother Painting puts a fresh coat of paint on the first floor of the Student Center Tuesday night.

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from page 6

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Apathy Of Frosh Upsets Students

In-house Rush, from Page 1

low key," said Henry Hilton '04, Burton-Conner rooming co-coordinator.

Brent P. Buddensee '03, a participant in First West of East Campus' rush, had similar sentiments. "It's a little slower than previous years," Buddensee said.

Residents of MacGregor also noted a reluctance of freshmen to move from their current location. Heidi L. Davidz G, a graduate resident tutor for MacGregor's H-Entry, believes that this reluctance is hurting the residents of the dorm. "I think it's upsetting to the upperclassmen," Davidz said.

M. Carl Mahler '04, a resident of MacGregor's G-Entry, didn't want to jump to conclusions. "There's a lot of people who want to stay where they are. I wouldn't call it apathy," Mahler said.

Upperclassmen explain apathy

Mahler said that there wasn't such a perception of apathy in past years, "because [all freshmen] were expected to move."

"The fundamental problem [with rush] is lack of communication," said Tyler J. Broder '03, president of

MacGregor. He believes that the orientation and residence guides distributed to freshmen "just didn't stress" how the dorm and in-house rush processes work. He said that freshmen didn't realize that upperclassmen in each dorm were willing to help the freshmen move their belongings if they wished to switch dormitories.

"We need to redefine exactly what [rush] is," Broder said.

Freshmen give reasons for apathy

Some freshmen agreed that their classmates were not engaged in dorm and in-house rush.

"There is an apathy," said Clarence Lee '06, a freshman exploring MacGregor.

Freshmen "will move if they have to," Lee said, referring to freshmen who are unhappy with their housing situation.

W. Iris Tang '06, a resident of Burton-Conner, said that she wished that she had the option of room squatting. "It was a lot of hassle" packing and unpacking, she said.

Time for in-house rush shortened

There were varying impressions in the dormitories regarding the amount of time available for in-house rush. In-house rush began at

most dormitories almost immediately after the lottery results were announced. In-house room assignments were made overnight so that freshmen could begin moving by 10 a.m. on Thursday. In some previous years, dormitories were given an extra day for in-house rush.

"Everything's hyper-condensed," said Alan Lee G, a graduate resident tutor for First West of East Campus.

"I wish it was two days long," said Uriel P. Klieger '04, a resident of Second East of East Campus.

MacGregor and Burton-Conner residents said that their in-house rush schedules are exactly the same as previous years. Both dormitories have always held in-house rush in one evening.

"I don't notice," Garcia said about the in-house rush time frame.

Dormitories maintain individuality

Dorm residents are concerned about losing the individuality of their respective dormitories and halls as a result of freshmen apathy.

"We're trying hard to keep the personality [of Conner Three]," said Cyndi V. Vongvanith '03, a resident of Conner Three.

"I think East Campus is extreme enough [to maintain its personality]," Klieger said.



James J. Wnorowski '06 jousts with a padded bat during Third West's hall rush in East Campus on Wednesday night.

MIT's Helpdesk is Hiring!

We're looking for MIT students who are...

- technically savvy and resourceful.
- reliable, friendly, and service oriented.
- good communicators who enjoy problem solving and explaining technical issues.
- eager to learn and ready to be challenged.
- interested in earning \$12.50/hour.
- willing to commit to working with us for at least 2 semesters.

To learn more about us, send your resume to hd-hiring@mit.edu and attend one of our Computing Helpdesk Info Sessions!

Thursday
August 29, 2002

6pm - 7:30pm

N42
Demo Center

Thursday
Sept. 5, 2002

5pm - 6:30pm

N42
Demo Center

<http://web.mit.edu/helpdesk/hiring.html>



Combat tested.

<info@the-tech.mit.edu>
W20-483, x3-1541